CLAIMS

1. A method for monitoring a polynucleotide amplification reaction comprising the steps of:

(i) carrying out a reaction for the amplification of a target polynucleotide;

(ii) either during or after the amplification reaction contacting the amplified product with a molecule that binds to or interacts with a polynucleotide; and

(iii) detecting the interaction between the amplified product and the molecule by measuring changes in applied radiation,

wherein the molecule is immobilised to a support material.

2. A method according to claim 1, wherein the molecule is a polymerase enzyme.

3. A method according to claim 1, wherein the molecule is a polynucleotide of complementary sequence to that of the amplified product.

4. A method according to claim 3, wherein the molecule acts as a primer for the amplification reaction.

5. A method according to any preceding claim, wherein detection in step (iii) is carried out by applying surface electromagnetic waves and monitoring changes in the waves.

6. A method according to claim 5, wherein detection is carried out by measuring changes in surface plasmon resonance.